

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP
AUGUST 5, 2015**

DIRECTORS PRESENT

Edward Mandich, Committee Chair
Stephen Dopudja, Committee Member

STAFF PRESENT

Hector Ruiz, General Manager
Michael Perea, District Secretary
Lorrie Lausten, Engineer
Travis Jones, Wastewater Department Chief Plant Operator
Gary Kessler, Water Department Chief Plant Operator
Jason Stroud, Maintenance Department Mechanical Technologist
Lisa Carmouche, Administrative Assistant

PUBLIC PRESENT

There were no members of the public present.

CALL MEETING TO ORDER

Mr. Mandich called the August 5, 2015, Engineering/Operational Committee Meeting to order at 7:00 AM.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

Director Dopudja commended District staff and Raftelis Financial Consultant on the information and the manner in which it was presented at the Special Board Meeting – Rate Analysis Workshop.

Director Mandich echoed Director Dopudja's comment concerning the Special Board Meeting.

REPORT FROM THE GENERAL MANAGER

Mr. Ruiz had no matters to report to the Committee.

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

Mr. Ruiz presented the July 1, 2015, Engineering/Operational Committee Meeting Recap for Committee review. There were no comments received.

RECOMMENDED ACTION

The Committee recommended that the Board receive and file the July 1, 2015, Engineering/ Operational Committee Meeting Recap (Consent Calendar).

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ITEM 2: ALTERNATE RAW WATER TRANSMISSION LINE - PW79

Mr. Ruiz provided a status update on this project, and mentioned that Tetra Tech (Consultant) has completed the additional potholing for the project and is currently finalizing the preliminary alignment design. Discussion occurred concerning the planned alignment of the District's pipeline in relation to Southern California Edison's (SCE) exclusive easement. Mr. Ruiz reviewed Tetra Tech's Final Preliminary Design Technical Memorandum, Figure No. 2 with the Committee to show the planned location of the District's pipeline. Discussion occurred concerning pipeline specifications and status of communications with SCE concerning the project. Mr. Ruiz reviewed the schedule of the major project tasks remaining which included finalizing the design with Tetra Tech and completion of the appraisal process. Discussion occurred concerning project timeline and project challenges.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 3: BAKER WATER TREATMENT FACILITY

Mr. Ruiz provided a status update on this project, and presented the Baker Water Treatment Plant Construction Report for July 2015 for Committee review. Mr. Ruiz mentioned that he and Ms. Lausten attended the Project Committee Meeting on July 28, 2015, and commented on project challenges that have created delays, which included deficiencies with the structural steel erection of the onsite chemical building. Mr. Ruiz mentioned that completion of the building is the critical path on the schedule, with the overall schedule showing 52 days of negative float that the contractor is working to make up. Mr. Ruiz reviewed pending project change orders for the project, and mentioned that District staff has met with Irvine Ranch Water District (IRWD) to review SCADA communications between the Baker Plant and the Dimension Water Treatment Plant.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 4: DISCUSSION AND POSSIBLE ACTION RELATING TO TCWD'S DOMESTIC WATER STORAGE AND RESERVOIR SITE FEASIBILITY STUDY

Mr. Ruiz presented this matter for Committee review, and mentioned that District staff is prepared to restart a study to evaluate district-wide storage requirements and possible reservoir locations. Mr. Ruiz mentioned that in 2011 the Board of Directors approved Psomas to do the study, however changes in future developments occurred shortly after that necessitated putting a hold on the study. Mr. Ruiz presented a proposal from Psomas to complete a Feasibility Study based on the District's hydraulic computer model. Discussion occurred concerning the challenges associated with determining the location and appropriate sizing of a new reservoir. Director Mandich inquired if the study was related to the Water Reliability and Emergency Storage fund (WRES). Mr. Ruiz mentioned that the reservoir project is a component of the WRES. Discussion occurred concerning project challenges and meeting the balance between storage capacity and customer demand.

RECOMMENDED ACTION

The Committee received the status update, and recommended that the Psomas proposal for the Storage Requirements and Reservoir Site Feasibility Study, dated June 22, 2015, be forwarded to the Board of Directors for approval (Action Calendar).

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ITEM 5: DISCUSSION AND POSSIBLE ACTION CONCERNING THE DEVELOPMENT OF TCWD'S TEN YEAR CAPITAL IMPROVEMENT PROGRAM

Mr. Ruiz presented this matter to the Committee for review, and mentioned that the District's Ten Year Capital Improvement Program (CIP) has been prepared for planning and use in the Water, Wastewater and Recycled Water Rate Analysis. Mr. Ruiz presented the CIP for Committee review and discussed the project criteria and methodology for prioritization. Mr. Ruiz mentioned that the CIP is a Program where projects can be added, removed, and modified to meet the District's needs and budget. Mr. Ruiz reviewed the CIP by Department and highlighted the following specific projects:

Administration

- AMR Meters
- Pool Vehicle Replacement – SUV
- Local Weather Station

Water

- Dimension Water Treatment Plant Chemical Truck Delivery Access Improvement
- Ridgeline Booster Pump Station Emergency Generator
- Ridgeline Booster Pump Station Electrical VFDs and Controls/Telemetry
- Reservoir Replacement
 - Cooks Corner Reservoir
 - Harris Grade Reservoir
 - Two Million Gallon Reservoir
- District-wide Pipeline Replacement
- Mountain View Drive Infrastructure Improvements

Wastewater

- Crane Truck Replacement Vehicle
- Robinson Ranch Wastewater Treatment Plant - Grit Chamber
- Robinson Ranch Wastewater Treatment Plant – Aeration System
- Robinson Ranch Wastewater Treatment Plant – Aerobic Digester Aerator System and Sludge Station Pump
- Via Allegre Sewer Lift Station Wet Well Upgrades

Recycled Water

- Dove Recycled Water Pump Station - Pump Replacement
- Dove Lake Water Microscreens – Automatic Microscreening System
- Dove Creek & Tick Creek Pump Stations – Pump Replacements

Discussion occurred concerning CIP handout design and layout for clarity purposes.

RECOMMENDED ACTION

The Committee received the status update, and recommended that the District's Ten Year Capital Improvement Program be forwarded to the Board of Directors for review (Action Calendar).

ITEM 6: OTHER ENGINEERING AND OPERATIONS PROJECTS

1. Recycled Water Conversion Project Opportunities

Mr. Ruiz presented this matter for Committee review, and mentioned that District staff received certain completed Commercial Irrigation Reduction Plans (CIRP) with requests for recycled water conversions. District staff has started coordinating with certain commercial irrigation users to convert their current potable water connections to recycled water for irrigation purposes. Ms. Lausten highlighted the planned conversion projects with the District's Digital Base Mapping System for Committee review. Discussion occurred concerning the Commercial Irrigation Reduction Plan (CIRP) application process and methodology, and opportunities for additional recycled water conversions in the District's service area. Mr. Ruiz noted that these were unfunded and unplanned projects at this time and more details would be provided as the projects are further developed.

2. Urban Water Management Plan

Mr. Ruiz presented this matter for Committee review, and mentioned that District staff has evaluated its workload and other project demands, and has determined the need to participate with other Municipal Water District of Orange County (MWDOC) agencies in the preparation of the 2015 Urban Water Management Plan (UWMP). Mr. Ruiz added that this matter was budgeted and approved for Fiscal Year 2015/2016 for \$55,000, but that final estimates are approximately \$41,000, with District staff anticipating costs as low as \$20,000. Mr. Ruiz mentioned that MWDOC has secured the consulting firm Arcadis for the UWMP preparation. Discussion occurred concerning the purpose and requirements of the UWMP, including new legally required water audit studies and additional coordination with Metropolitan Water District of Southern California (MET) and MWDOC due to the water supply and drought sections requiring a significant update.

RECOMMENDED ACTION

The Committee received the status update(s), no action taken.

ITEM 7: SKYRIDGE DEVELOPMENT (84 DUs)

Mr. Ruiz provided a status update on this development, and reviewed the Developer Tract Map with the Committee. Mr. Ruiz added that District staff is currently finalizing the Interagency Agreement with Santa Margarita Water District (SMWD), and that the final version Agreement for Construction of Water and Sewer Facilities (Application for Water Service) is being prepared with assistance from the District's Legal Counsel and will be presented to the Board of Directors at the August Regular Board Meeting. Discussion occurred concerning development progress to date and details of the terms to be included in the Agreement.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 8: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING PLANO TRABUCO DEVELOPMENT, WILLIAM LYON HOMES, INC., CITY OF RANCHO SANTA MARGARITA (36 UNIT TRIPLEX BUILDING DESIGN)

Mr. Ruiz provided a status update on this development, and presented the Sub Area Master Plan (SAMP), DRAFT Will Serve Letter (WSL) and DRAFT Agreement for Construction of Water and Sewer Facilities (Agreement) for Committee review. Discussion occurred concerning the process for approval and the development progress to date. Mr. Ruiz mentioned that the WSL and Agreement have been reviewed by District Legal Counsel and the Developer, and if the Board approves the SAMP, then the WSL and Agreement will be submitted to the Developer for execution.

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RECOMMENDED ACTION

The Committee received the status update, and recommended that the Sub Area Master Plan, DRAFT Will Serve Letter and DRAFT Agreement for Construction of Water and Sewer Facilities be forwarded to the Board of Directors for approval (Action Calendar).

ITEM 9: SADDLE CREST DEVELOPMENT

Mr. Ruiz provided a status update on this development, and mentioned that this development is active once again after it has been stopped for an extended period due to ongoing litigation. Mr. Ruiz added that the Developer has requested that the District prepare a revised and updated Sub Area Master Plan (SAMP) that will account for lower water demands resulting from the increased water use efficiency standards for outdoor irrigation. Discussion occurred concerning the potential impacts of the updated Orange County Model Water Efficient Landscape Ordinance (MWELO) on the development and the new reservoir capacity design challenges and opportunity for additional reservoir capacity beneficial to the District.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 10: ACTIVE DEVELOPMENTS

1. Summerfield Homes, County of Orange – Tract 15800 (5 DUs | WSL)

Ms. Lausten commented that District staff has met with the Developer to review potable water and sewer system connections at the site. Discussion occurred concerning the design of private sewer lift stations for three dwelling unit, and their private operation and maintenance by the future homeowner. Ms. Lausten added that two of the five homes near completion.

2. Oaks at Trabuco, County of Orange (9 DUs | WSL)

Ms. Lausten commented that there was no update on this development.

3. Other Active Developments

Ms. Lausten commented that there were no other active developments.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 11: WATER SYSTEM STATUS

Mr. Kessler presented the Water System Status Update through July, 2015, and reported on the following matters:

- Water Department staff repaired a failed 2" service line in the Falcon Estates development.
- Water Department staff replaced an Air-Vac and completed repairs to the Lindsay Pressure Reducing Valve in lower Robinson Ranch.
- Water Department staff replaced a leaking fire hydrant on Wunder Trail in the Hamilton Oaks development.

Mr. Kessler provided an updated Monthly Water System Operations Summary report for July, 2015, for Committee review, and provided additional information for calendar year 2013 for comparison purposes. Discussion occurred concerning the current conservation efforts of District customers; Mr. Kessler mentioned that the District's customers have reduced their usage by approximately 40% District-wide.

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RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 12: WASTEWATER SYSTEM STATUS

Mr. Hanberg presented the Wastewater System Status Update through July, 2015, and reported on the following matters:

- Wastewater Department staff assisted the Maintenance Department install a new pump at the Plano Sewer Lift Station.
- Wastewater Department staff processed the reclaimed water conversion documentation with the State Department of Public Health for the Dove Canyon Golf Club 2" irrigation meter.
- Wastewater Department staff started to provide reclaimed water to Sakaida Nursery for commercial agricultural irrigation purposes.

Mr. Hanberg provided an updated Monthly Recycled Water System Operations Summary for July, 2015, for Committee review, and mentioned that the freeboard level for Dove Lake was currently at 10.5 feet.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 13: OTHER MATTERS/REPORTS

Mr. Ruiz mentioned that he is meeting with SMWD and Starr Ranch to discuss opportunities for capturing additional runoff from the Dove Canyon Community via the Tick Creek Pump Station.

ADJOURNMENT

Mr. Mandich adjourned the August 5, 2015, Engineering/Operational Committee Meeting at 8:55 AM.